

Field of study: *Physics (Studies in English)*

2-year second cycle programme, full-time

Academic year: 2022/2023

Specialization: Optics

First year, semester 1

Course name/group of courses	Course code	Type of course	Option A		Option B		Verification of learning outcomes
			Number of hours	Number of ECTS points	Number of hours	Number of ECTS points	
Physics Laboratory, 2nd Level A1 or Physics Laboratory, 2nd Level A2	1100-4PLA1 or 1100-4PLA2	lab	45	5	45	5	grade
Courses selected from the list Statistical physics	1100-4SPA or 1100-4SPB	lecture	45	7	45	7	written or oral exam
		exercises	45		45		
Intellectual property and entrepreneurship or Intellectual property and entrepreneurship with team project (Option A or Option B)	1100-4IPE or 1100-4AF16	lecture	30	2	30	5	written exam or project
		project	0	0	75		
Courses selected from the list Numerical analysis			30	3	30	3	written exam or grade
Courses selected from the list Topics in contemporary physics - electives (Option A or/ Option B)			60	6	30	3	written exam or grade
Selected specialization courses			60	6	60	6	written exam
In total			315	29	360	29	

Credit with a grade means that the grade is issued on the basis of one or more written tests or one or more written works carried out in the period of the didactic classes and in accordance with the syllabus of the subject

First year, semester 2

Course name/group of courses	Course code	Type of course	Number of hours	Number of ECTS points	Verification of learning outcomes
Introduction to Philosophy	1100-IP	seminar	30	3	grade
Courses selected from the list Numerical analysis			30	3	written exam or grade
Proseminar: Optics	1100-4PO	seminar	30	3	grade
Optics Laboratory I	1100-4OL	lab	180	16	grade
Selected specialization courses			60	6	written exam
In total			330	31	

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Second year, semester 3

Course name/group of courses	Course code	Type of course	Option A*		Option B		Verification of learning outcomes
			Number of hours	Number of ECTS points	Number of hours	Number of ECTS points	
Team project**	1100-TP or 1100-ZPS2	project	75	5	0	0	grade
Selected specialization courses			60	6	60	6	written exam or grade
Optics Laboratory II	1100-5OL2	lab	210	19	210	19	grade
Optics Seminar	1100-4sOS	seminar	60	4	60	4	grade
In total			405	34	330	29	

*Option A is obligatory for those students who did not complete a team project during the first year

Credit with a grade means that the grade is issued on the basis of one or more written tests or one or more written works carried out in the period of the didactic classes and in accordance with the syllabus of the subject

Second year, semester 4

Course name/group of courses	Course code	Type of course	Number of hours	Number of ECTS points	Verification of learning outcomes
Work placement	1100-WP	internship	80	4	grade
Proseminar Challenges of the modern times	1100-PCMT	seminar	20	2	grade
OGUN (General University Courses)*			30	6	written exam or grade
Optics Laboratory III	1100-5OL3	workshop	210	19	pass/fail (no grade)
In total			340	31	

* 5 ECTS points should be obtained from general courses unrelated to physical sciences, i.e. humanities and social sciences

In total	Option A		Option B	
	Number of hours	Number of ECTS points	Number of hours	Number of ECTS points
1 year	645	60	690	60
2 year	745	65	670	60
1 and 2 year	1390	125	1360	120